ORDER NO. MD0605170C3

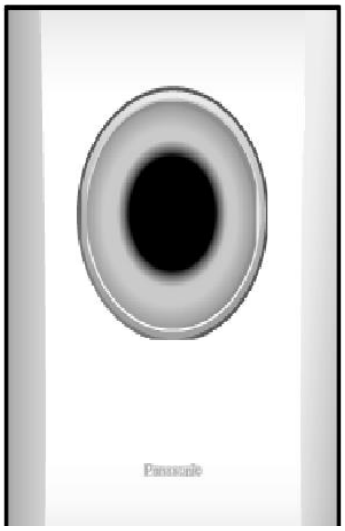
Service Manual

Speaker System

SB-WVK650EE

Colour

(S)... Silver Type



SPECIFICATIONS

Specification

Type	**1 way, 1 speaker system (Bass reflex)**
Speaker unit	**Impedance 4**
1. Woofer	**16 cm cone type**
Input power (IEC)	**100 W (Max)**
Output sound pressure	**80 dB/W (1.0 m)**
Frequency range	**28 Hz to 173 Hz (-16 dB)**
	33 Hz to 148 Hz (-10 dB)
Dimensions (W x H x D)	**220 mm x 330 mm x 303 mm**
Mass	**3.7 kg**

Notes :

1. Specifications are subject to change without notice.
Mass and dimensions are approximate.

2. Total harmonic distortion is measured by the digital spectrum analyzer.

■ **System : SC-VK650EE-S** **Music Center : SA-VK650EE-S**

Front Speaker : SB-VK650EE-S

Subwoofer : SB-WVK650EE-S

System	SC-VK650EE-S
Music Centre System	SA-VK650EE-S
Front Speaker	SB-VK650EE-S
Subwoofer	SB-WVK650EE-S

© 2006 Matsushita Electric Industrial Co. Ltd.. All rights reserved.
Unauthorized copying and distribution is a violation of law.

⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.

1. Assembling and Disassembling

"ATTENTION SERVICER"
Some chassis components may have sharp edges. Be careful when disassembling and servicing.

1. **This section describes procedures for checking the operation of the major printed circuit boards and replacing the main components.**
2. **For reassembly after operation checks or replacement, reverse the respective procedures.**
   Special reassembly procedures are described only when required.
3. **Select items from the following index when checks or replacement are required.**

4. Refer to the Parts No. on the page of "Parts Location and Replacement Parts List" (Section 5), if necessary.

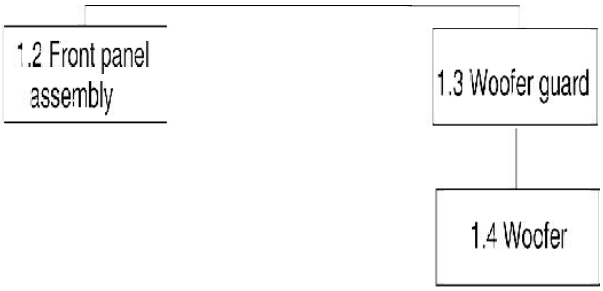
> **Caution:**
>
> Original screws should be used.

Below is the list of disassembly sections

- Disassembly of Front panel assembly
- Disassembly of Woofer guard
- Disassembly of Woofer

1.1. Disassembly flow chart

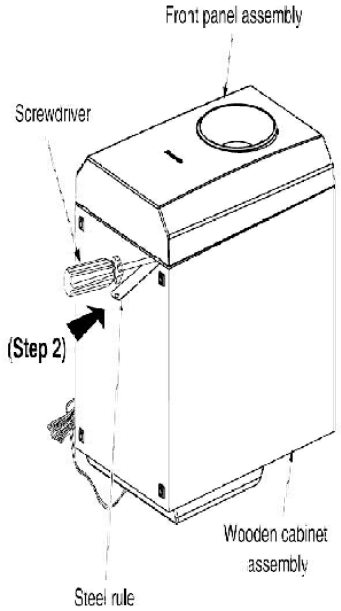
The following chart is the procedure for disassembling the casing and inside parts for internal inspection when carrying out the servicing.
To assemble the unit, reverse the steps shown in the chart as below.



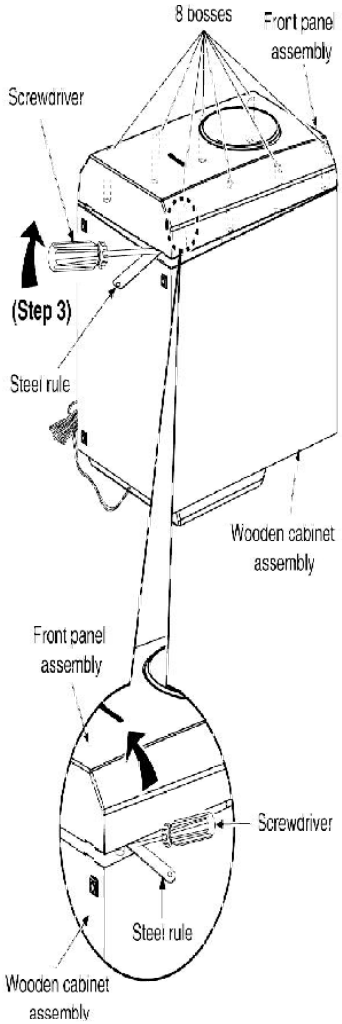
1.2. Disassembly of Front panel assembly

Step 1: Insert a small steel rule into the grooves of the front panel assembly and lift up a little bit to

make a gap allowance between the front panel assembly and wooden cabinet assembly as arrow shown.



Step 2: Insert a flathead screwdriver into the groove as shown. Ensure that the screwdriver is above the steel rule.

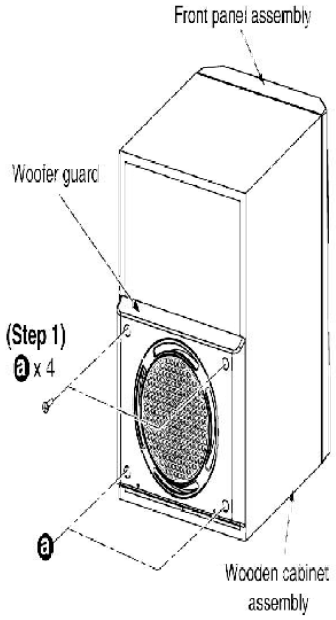


Step 3: At the boss area, push up as arrow shown to open the bosses.

Caution:

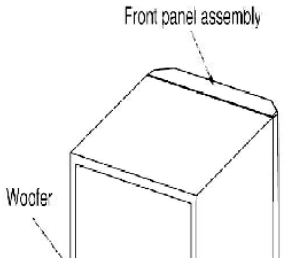
Do not exert strong force as it may damage front panel assembly.

1.3. Disassembly of Woofer guard

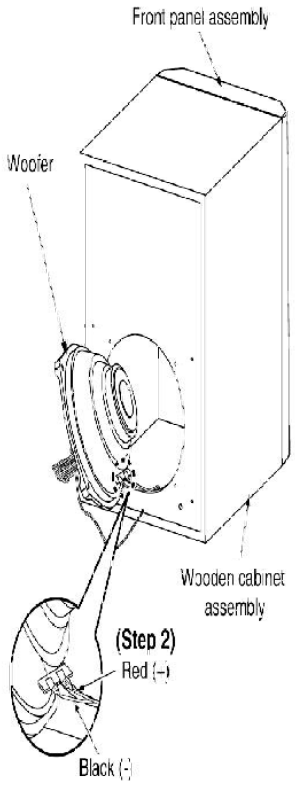


Step 1: Remove 4 screws.

1.4. Disassembly of Woofer



Step 1: Remove 4 screws.



Step 2: Detach the (+) red and (-) black wires.

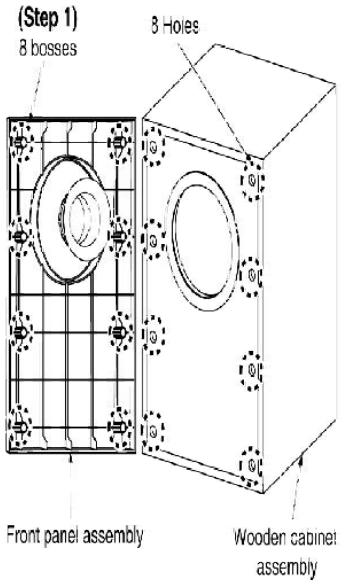
- Disassembly of Wooden cabinet assembly

Follow (step 1) to (step 3) in item 1.2.

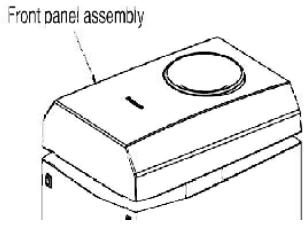
Follow (step 1) in item 1.3.

Follow (step 1) to (step 2) in item 1.4.

1.5. Assembly of Speaker unit



Step 1: Scrape off using the scriber and clean up the remaining glue at the 8 bosses and 8 holes of the front panel assembly and wooden cabinet assembly and replace with new glue.



Step 2: Fix the front panel assembly firmly back to the wooden cabinet assembly.

2. Connection of the Speaker Cables

- Be sure to connect speaker cables before connecting the AC power supply cord.

- The load impedance of any speaker used with this unit must be 4 .

- Be sure to connect the cable from the right speaker to the right terminal and the cable from the left speaker to the left terminal.

1. Twist and pull off the vinyl tip of the speaker cords. If the speaker

cords do not have vinyl tips, connect them directly to the terminals. Make sure the bare ends of the wires are not unravelled.

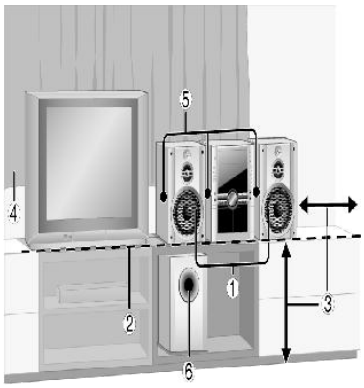
2. Insert the wire to the rear panel of the unit and close the lever.

Notes :

- To prevent damage to circuitry, never short-circuit positive (+) and negative (-) speaker wires.

- Be sure to connect only positive (red) wires to positive (+) terminals and negative (black) wires to negative (-) terminals.

Positioning



Notes on speaker use

- You can damage your speakers and shorten their useful life if you play sound at high levels over extended periods.

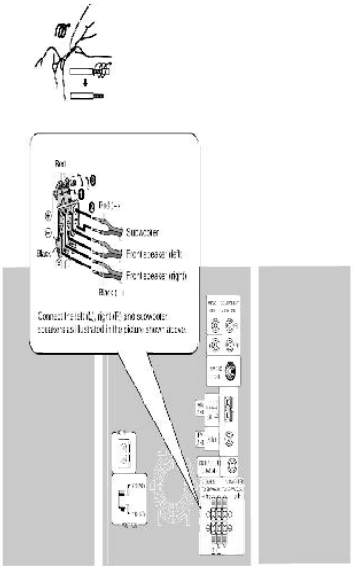
- Reduce the volume in the following cases to avoid damage.

- When playing distorted sound.

- When the speakers emit strange noise (howling) from a / microphone or record player, noise from FM broadcasts, or continuous signals from an oscillator, test disc, or electronic instrument.

- When adjusting the sound quality.

- When turning the unit on or off.



Positioning for best effect

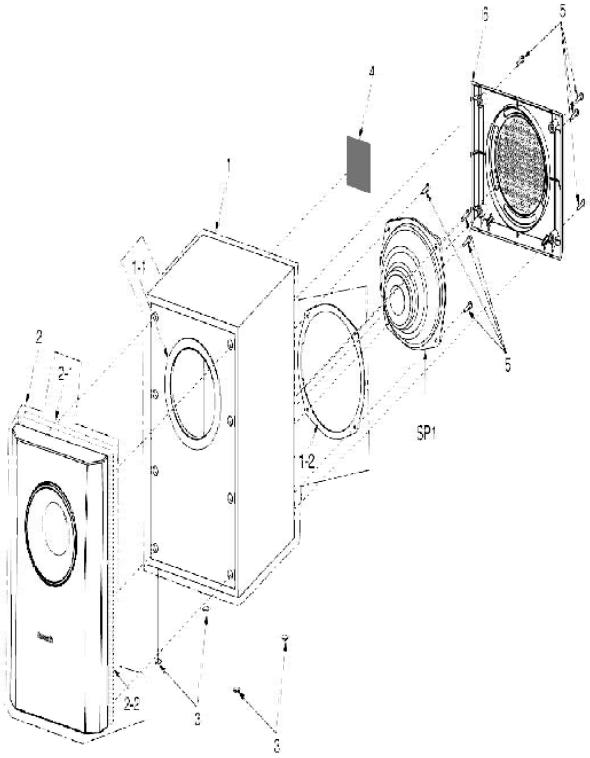
1. **You cannot take the front net off the speakers.**
2. **Set the speakers up on an even surface to prevent them from falling. Take proper precautions to prevent the speakers from falling if you cannot set them up on an even surface.**
3. **Placing speakers too close to floor, walls, and corners can result in excessive bass.**
4. **Cover walls and windows with a thick curtain.**
5. **Keep your speakers at least 10 mm away from the system for proper ventilation.**
6. **Place the subwoofer on the floor or a strudy shelf so that it would not cause vibration. Leave 10 cm at the rear for ventilation.**

If irregular coloring occurs on your television
These speakers are designed to be used close to a television, but the picture may be affected with some televisions and set-up combinations.
If this occurs, turn the television off for about 30 minutes
The television's demagnetizing function should correct the problem. If it persists, move the speakers further away from the television.

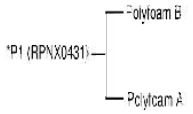
3. Connection of the Wiring Diagram

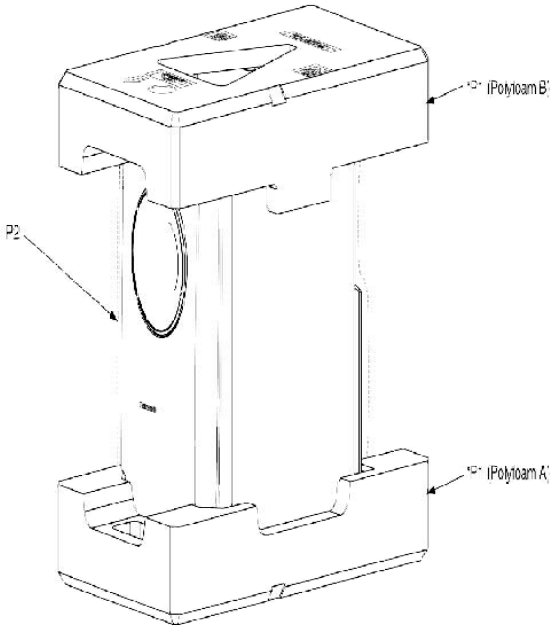
4. Exploded view

4.1. Cabinet Parts Location



4.2. Packaging





5. Replacement Parts List

Notes :

- Important safety notice :

When replacing any of these components, be sure to use only manufacturer's specified parts shown in the parts list.

- [M] markings in the Remarks columns indicates parts supplied by PAVCSG.

Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET AND CHASSIS	
1	RYKX0332-S	WOODEN CABINET ASSY	[M]
1-1	RMQX0202-K	EVA PACKING (PORT)	[M]
1-2	RMQX0205-K	EVA PACKING (PORT)	[M]
2	RYBX0142-S	FRONT PANEL ASSY	[M]
2-1	RMQX0171-W	HIMELON (TOP/BTM)	[M]
2-2	RMQX0172-W	HIMELON (SIDE)	[M]
3	RKA0072-KJ	LEG CUSHION	[M]
4	RGNX0386-K	SPEC SHEET	[M]
5	XTB4+16AFJK	SCREW(STAND)	[M]
6	RGPX0263-S	WOOFER GUARD	[M]
		PACKING MATERIALS	
P1	RPNX0431	POLYFOAM	[M]
P2	RPFX0183	MIRAMAT	[M]
		SPEAKER	
SP1	L0AA16A00017	WOFFER	[M]

FLE0605W/S